



MAR BASELIOS CHRISTIAN
COLLEGE OF ENGINEERING & TECHNOLOGY
KUTTIKANAM, PEERMADA



A
5 Day
Faculty Development Program
On

Open Challenges
in Emerging Applications
of IoT

Organised by

**Department of Electronics and Communication
Engineering**

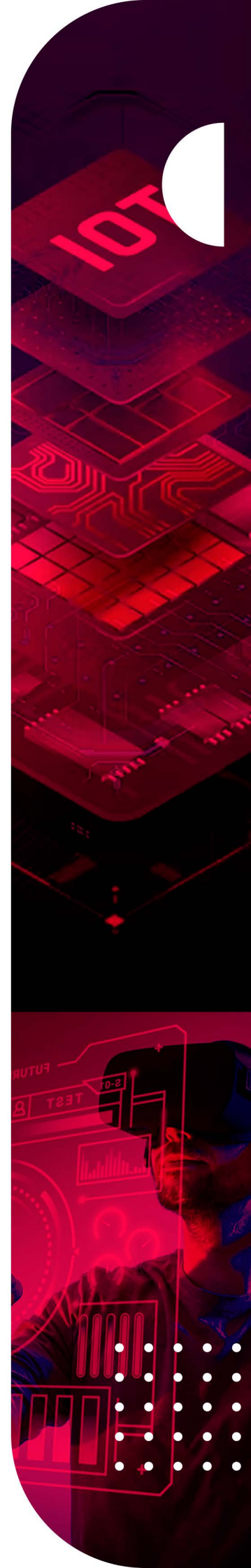
Sponsored by



**APJ Abdul Kalam Technological
University, Kerala**



February 27 to March 3, 2023



About FDP

IoT is playing a crucial role in the development of Industry 4.0, which is focused on creating smart factories and production lines that are more efficient, flexible, and sustainable. IoT is transforming various industries and sectors, including healthcare, transportation, agriculture, and smart homes. The significance of IoT will continue to grow as more devices become connected and new applications are developed. This FDP will provide a comprehensive coverage of IoT, including an overview of IoT devices, networking protocols, and cloud and edge computing. It will also demonstrate the advancements and challenges in the automotive industry. The hands-on session will provide a practical demonstration of IoT hardware and software.

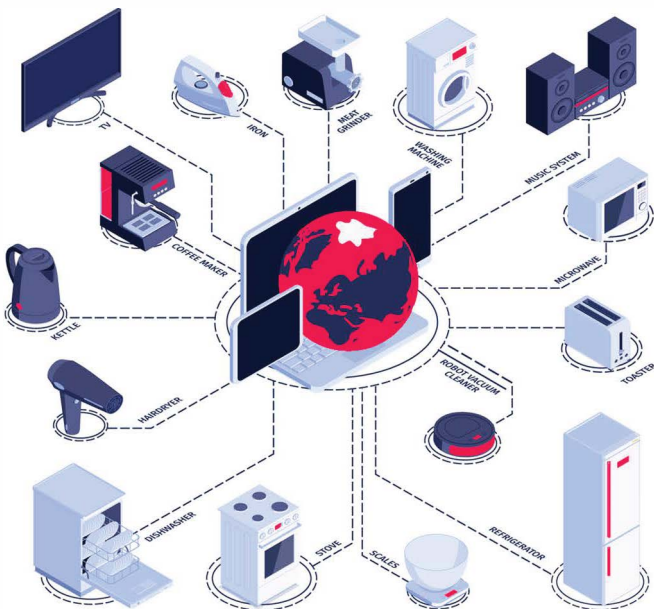


Course Contents

Introduction to IoT and its applications, including real-life examples, the architecture and hardware used in IoT, the difference between IoT and WSN, applications of IoT in home and vehicular monitoring, the role of 5G URLLC in IoT, automotive IoT, NOMA (IoT Networks for 5G and Beyond), and a hands-on session on software and hardware.

Course Objectives

- To understand the IoT concepts and architecture, including devices, sensors, and networking.
- Ability to design and implement IoT solutions using hardware and software components.
- To acquire programming skills for IoT devices such as Arduino Uno & ESP 8266, NodeMCU with Thingspeak cloud platform.
- To identify and analyze open challenges and applications of IoT.



Resource Persons



Dr. Jihans Khan
Senior Specialist

Autonomous Driving, Electric Vehicles,
Tata Elxsi



Dr. Hari Govindan V P
Assistant Professor

Department of ECE,
NIT, Puducherry



Dr. Koppala Guravaiah
Assistant Professor

Department of CSE,
IIT, Kottayam



Dr. Sudha T
Professor & Dean

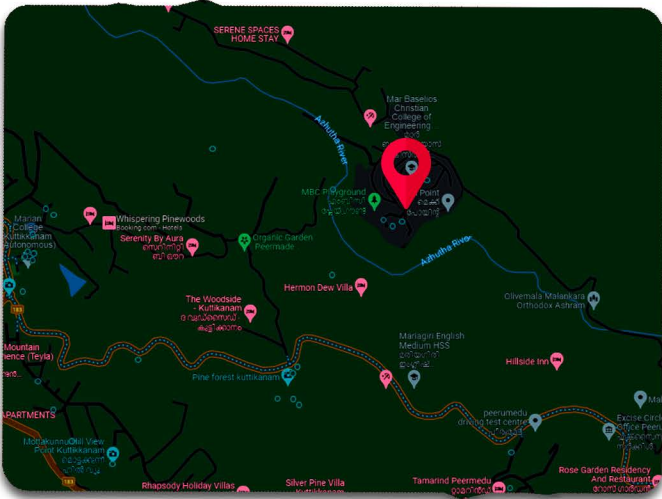
Saintgits College of Engineering,
Kottayam



Dr. Rahul Krishnan
Head - Centre for IoT

Department of ECE,
MBCCT

How to reach ?



Mar Baselios Christian College
of Engineering & Technology
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https://bit.ly/GoogleMap_Location

For Queries

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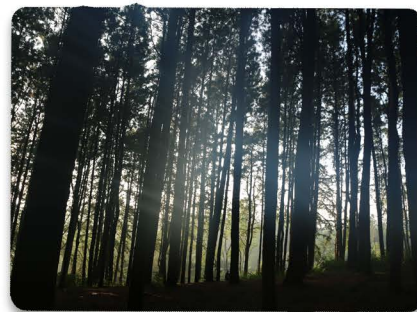
FDP highlights

- No registration fee - KTU sponsored
- Hands-on training on real time IoT applications
- Experts from **Premier Engineering Institutes of India and Industry**
- Nature walk and sightseeing

Panchalimedu



Pine Forest,
Kuttikanam



CHEIF PATRON

H H Baselios Marthoma Mathews II

PATRONS

Mr. Prince Varghese
Dr. V. I George

- Director, MBC CET
- Principal, MBC CET

CONVENER

Prof. Elias Janson K

- Vice Principal,
MBC CET

CO-ORDINATOR

Dr. Resmi N. C

- Head of Department
ECE, MBC CET

ORGANISING COMMITTEE

Dr. Ramu R

- Assistant Professor,
MBC CET

Anu Mary Mathew

- Assistant Professor,
MBC CET

Tom J Kuriakose

- Assistant Professor,
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Maria Joseph

- Assistant Professor,
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Almaria Joseph

- Assistant Professor,
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Vishnu V Gopi

- Assistant Professor,
MBC CET

Syamol Saseendran

- Assistant Professor,
MBC CET

TECHNICAL COMMITTEE

Mr. Bobby George

- Senior Lab Instructor,
MBC CET

Mrs. Julimol Joy

- Lab Instructor,
MBC CET

Mr. Devajan A

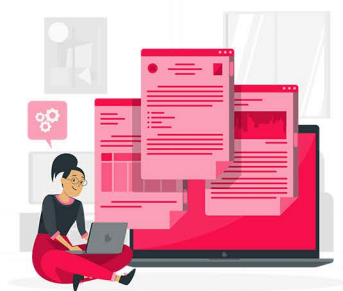
- Lab Instructor
Grade II, MBC CET

Register here :

Sponsorship Letter



https://bit.ly/FDP_MBC CET



https://bit.ly/FDP_SL

About Institution

Mar Baselios Christian College of Engineering & Technology, Kuttikkanam, Peermade, is a Self-Financing Institution for Professional Education, affiliated to APJ Abdul Kalam Technological University (KTU), Trivandrum and approved by All India Council for Technical Education (AICTE), New Delhi. The College is owned and managed by the Malankara Orthodox Syrian Church, which plays a paternal role in the Institutions establishment and operations. The Institution focuses on offering baccalaureate degree programs in various Engineering streams. In 2001, the College started functioning as a new generation Engineering College. Since its inception in the year 2001, the College has been on a steady path of growth and up-gradation. Our aim is to provide our students with the best possible facilities and the right training. We emphasize on teaching excellence and wholesome learning experience and strive towards making MBC a premier Educational Institution.

About Department

The department of Electronics and Communication Engineering started in the year 2001. The department offers B.Tech program that provide students with the knowledge and tools they need to succeed in Electronics and Communication Engineering. The Electronics Engineering deals with study and applications of electronic devices, circuits, communication systems and related technologies. Electronics and Communication Engineering professionals design, develop, and maintain electronic systems, including hardware and software components. The department is meeting the demands of technological challenges and the need for technical man power through its revised course curriculum, seasoned faculty, competent support staff, and the aid of well-equipped laboratories.

Department Vision

To become one of the sought-after electronics and communication engineering departments with the state-of-the-art facilities creating knowledge and molding competent professional engineers to address the challenging societal needs

Department Mission

- Provide theoretical and practical knowledge through quality education to work in a collaborative environment following ethical practices.
- Establish the state-of-the-art laboratories to facilitate research, innovation and entrepreneurship.
- Upgrade the knowledge and skills to be on part with the advancements in technology to address the challenging societal needs.